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New strain corynebacterium sepedonicum - used as producer of polysaccharide, inducing formation of interferon, and has higher activity than known preparations

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Patent Details:

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SU 1756349	A1	5	C12N-001/20		

Abstract (Basic): SU 1756349 A

New strain *Corynebacterium sepedonicum* IMV 7694 is stored in Institute of Antibiotics under registration number 1857. The strain is sepd. from diseased potato tubers and grown on a synthetic medium contg. ammonium chloride as the source of nitrogen and glucose as a carbon source. The strain is sepd. by cutting part of diseased tissues adjacent to healthy tissues with sterile knife, washing with sterile water for 15-20 min., mixing with small amt. of sterile water to produce a homogeneous mass, sowing onto agar surface in Petri bowls and placing them in thermostat at 25 +/- 3 deg.C. The culture medium for sepn. of bacteria consists of potato agar, or potato agar +1% of yeast autolysate, or potato agar +1% of glucose of meat-peptone agar. The culture can be stored in test-tubes contg. potato agar with surface covered with a layer of vegetable oil. In result of cultivation on liq. synthetic medium as quoted above (contg. glucose and ammonium chloride), the strain produces polysaccharide having ability to induce formation of interferon in human and animal cells. The type of interferon is determined from reaction of inhibition of its activity with specific monoclonal antibodies against gamma- and alpha- types of human interferon. In tests in vitro, gamma-interferon inducing activity of obtd. polysaccharide was 1920 +/- 580 IU(50)/ml. The yield of polysaccharide is 4-5% per dry wt. of cells. Polysaccharide is non-toxic up to 40 mg/kg and causes no side effects. Growing the culture of new strain-producer is 10 times cheaper than that of known